



SEQUENCE LISTING

Brockhaus, et al.

<120> Human TNF Receptor

<130> 01017/40451B

<140> US 08/444,790

<141> 1995-05-19

<160> 26

<170> PatentIn version 3.3

<210> 1

<211> 2111

<212> DNA

<213> Homo sapiens

<400> 1

```
gaattcggggg ggggttcaaga tctactgggac caggccgtga tctctatgcc cgagtctcaa      60
ccctcaactg tcaccccaag gcacttggga cgtcctggac agaccgagtc ccgggaagcc      120
ccagcactgc cgctgccaca ctgccctgag cccaaatggg ggagtgagag gccatagctg      180
tctggcatgg gcctctccac cgtgcctgac ctgctgctgc cgctgggtgct cctggagctg      240
ttggtgggaa tatacccctc aggggttatt ggactgggtcc ctcacctagg ggacagggag      300
aagagagata gtgtgtgtcc ccaaggaaaa tatatccacc ctcaaaaataa ttcgatttgc      360
tgtaccaagt gccacaaagg aacctacttg tacaatgact gtccaggccc ggggcaggat      420
acggactgca gggagtgtga gagcgggtcc ttcaccgctt cagaaaacca cctcagacac      480
tgcctcagct gtcctaaatg ccgaaaggaa atgggtcagg tggagatctc ttcttgacac      540
gtggaccggg acaccgtgtg tggctgcagg aagaaccagt accggcatta ttggagttaa      600
aaccttttcc agtgcttcaa ttgcagctc tgcctcaatg ggaccgtgca cctctcctgc      660
caggagaaac agaacaccgt gtgcacctgc catgcagggt tctttctaag agaaaacgag      720
tgtgtctcct gtagtaactg taagaaaagc ctggagtgca cgaagttgtg cctacccag      780
attgagaatg ttaagggcac tgaggactca ggcaccacag tgctgttgcc cctggtcatt      840
ttctttggtc tttgcctttt atccctctc ttcattgggt taatgtatcg ctaccaacgg      900
tggaagtcca agctctactc cattgtttgt gggaaatcga cacctgaaaa agaggggggag      960
cttgaaggaa ctactactaa gccctggcc ccaaacccaa gcttcagtcc cactccaggc     1020
ttcaccccca cctggggtt cagtcccgtg ccagttcca ccttcacctc cagctccacc     1080
tatacccccg gtgactgtcc caactttgcy gctccccgca gagaggtggc accaccctat     1140
cagggggctg accccatcct tgcgacagcc ctcgcctccg accccatccc caaccctt      1200
cagaagtggg aggacagcgc ccacaagcca cagagcctag aactgatga cccgcgcgac      1260
```

ctgtacgccg tgggtggagaa cgtgcccccg ttgcgctgga aggaattcgt gcggcgcccta 1320
 gggctgagcg accacgagat cgatcggctg gagctgcaga acgggcgctg cctgcgcgag 1380
 gcgcaataca gcatgctggc gacctggagg cggcgcacgc cgcggcgcgga ggccacgctg 1440
 gagctgctgg gacgcgtgct ccgcgacatg gacctgctgg gctgcctgga ggacatcgag 1500
 gaggcgcttt gcggccccgc cgccctcccg cccgcgcca gtcttctcag atgaggctgc 1560
 gccctgctgg gcagctctaa ggaccgtcct gcgagatcgc cttccaaccc cacttttttc 1620
 tggaaaggag gggctcctgca ggggcaagca ggagctagca gccgcctact tggtgctaac 1680
 ccctcgatgt acatagcttt tctcagctgc ctgcgcgcgc cgcacagtca gcgctgtgcg 1740
 cgcggagaga ggtgcgcctg gggctcaaga gcctgagtggt gtggtttgcg aggatgaggg 1800
 acgctatgcc tcatgcccgt tttgggtgct ctcaccagca aggctgctcg ggggcccctg 1860
 gttcgtccct gagccttttt cacagtgc atagcagtttt ttttgttttt gttttgtttt 1920
 gttttgtttt taaatcaatc atgttacact aatagaaact tggcactcct gtgccctctg 1980
 cctggacaag cacatagcaa gctgaactgt cctaaggcag gggcgagcac ggaacaatgg 2040
 ggccttcagc tggagctgtg gacttttgta catacactaa aattctgaag ttaaaaaaaaa 2100
 aaccgaatt c 2111

<210> 2
 <211> 455
 <212> PRT
 <213> Homo sapiens

<400> 2

Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
 1 5 10 15

Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
 20 25 30

His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
 35 40 45

Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
 50 55 60

Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
 65 70 75 80

Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
 85 90 95

Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val

100					105					110					
Glu	Ile	Ser	Ser	Cys	Thr	Val	Asp	Arg	Asp	Thr	Val	Cys	Gly	Cys	Arg
		115					120					125			
Lys	Asn	Gln	Tyr	Arg	His	Tyr	Trp	Ser	Glu	Asn	Leu	Phe	Gln	Cys	Phe
	130					135					140				
Asn	Cys	Ser	Leu	Cys	Leu	Asn	Gly	Thr	Val	His	Leu	Ser	Cys	Gln	Glu
145					150					155					160
Lys	Gln	Asn	Thr	Val	Cys	Thr	Cys	His	Ala	Gly	Phe	Phe	Leu	Arg	Glu
				165					170					175	
Asn	Glu	Cys	Val	Ser	Cys	Ser	Asn	Cys	Lys	Lys	Ser	Leu	Glu	Cys	Thr
			180					185					190		
Lys	Leu	Cys	Leu	Pro	Gln	Ile	Glu	Asn	Val	Lys	Gly	Thr	Glu	Asp	Ser
		195					200						205		
Gly	Thr	Thr	Val	Leu	Leu	Pro	Leu	Val	Ile	Phe	Phe	Gly	Leu	Cys	Leu
	210					215						220			
Leu	Ser	Leu	Leu	Phe	Ile	Gly	Leu	Met	Tyr	Arg	Tyr	Gln	Arg	Trp	Lys
225					230					235					240
Ser	Lys	Leu	Tyr	Ser	Ile	Val	Cys	Gly	Lys	Ser	Thr	Pro	Glu	Lys	Glu
				245					250					255	
Gly	Glu	Leu	Glu	Gly	Thr	Thr	Thr	Lys	Pro	Leu	Ala	Pro	Asn	Pro	Ser
			260					265					270		
Phe	Ser	Pro	Thr	Pro	Gly	Phe	Thr	Pro	Thr	Leu	Gly	Phe	Ser	Pro	Val
		275					280					285			
Pro	Ser	Ser	Thr	Phe	Thr	Ser	Ser	Ser	Thr	Tyr	Thr	Pro	Gly	Asp	Cys
			290			295					300				
Pro	Asn	Phe	Ala	Ala	Pro	Arg	Arg	Glu	Val	Ala	Pro	Pro	Tyr	Gln	Gly
305					310					315				320	
Ala	Asp	Pro	Ile	Leu	Ala	Thr	Ala	Leu	Ala	Ser	Asp	Pro	Ile	Pro	Asn
				325				330						335	
Pro	Leu	Gln	Lys	Trp	Glu	Asp	Ser	Ala	His	Lys	Pro	Gln	Ser	Leu	Asp
			340					345						350	

Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro
 355 360 365

Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
 370 375 380

Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
 385 390 395 400

Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
 405 410 415

Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
 420 425 430

Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
 435 440 445

Pro Ala Pro Ser Leu Leu Arg
 450 455

<210> 3
 <211> 2339
 <212> DNA
 <213> Homo sapiens

<400> 3
 tcggacaccg tgtgtgactc ctgtgaggac agcacatata cccagctctg gaactggggt 60
 cccgagtgtc tgagctgtgg ctcccgtgt agctctgacc aggtggaaac tcaagcctgc 120
 actcgggaac agaaccgcat ctgcacctgc agggcccggt ggtactgcgc gctgagcaag 180
 caggaggggt gccggctgtg cgcgccgtg ccgaagtgcc gcccgggctt cggcgtggcc 240
 agaccaggaa ctgaaacatc agacgtggtg tgcaagccct gtgccccggg gacgttctcc 300
 aacacgactt catccacgga tatttgcagg cccaccaga tctgtaacgt ggtggccatc 360
 cctgggaatg caagcaggga tgcagtctgc acgtccacgt cccccacccg gagtatggcc 420
 ccaggggcag tacacttacc ccagccagt tccacacgat cccaacacac gcagccaagt 480
 ccagaacca gcactgctcc aagcacctcc ttctgtctcc caatggggccc cagcccccca 540
 gctgaaggga gcactggcga cttcgtcttt ccagttggac tgattgtggg tgtgacagcc 600
 ttgggtctac taataatagg agtggtgaac tgtgtcatca tgaccaggt gaaaaagaag 660
 cccttgtgcc tgcagagaga agccaagggt cctcacttgc ctgccgataa ggccccgggt 720
 acacagggcc ccgagcagca gcacctgtg atcacagcgc cgagctccag cagcagctcc 780
 ctggagagct cggccagtgc gttggacaga agggcgccca ctcggaacca gccacaggca 840
 ccaggcgtgg aggccagtgg ggccggggag gcccgggcca gcaccgggag ctacgcagat 900

tcttccccctg gtggcccatgg gacccagggtc aatgtcacct gcatcgtgaa cgtctgtagc 960
agctctgacc acagctcaca gtgctcctcc caagccagct ccacaatggg agacacagat 1020
tccagccccct cggagtcctcc gaaggacgag cagggtccct tctccaagga ggaatgtgcc 1080
tttcgggtcac agctgggagac gccagagacc ctgctgggga gcaccgaaga gaagcccctg 1140
ccccttggag tgctgatgc tgggatgaag cccagttaac caggccggtg tgggctgtgt 1200
cgtagccaag gtggctgagc cctggcagga tgacctgcg aaggggccct ggtccttcca 1260
ggccccacc actaggactc tgaggctctt tctgggcaa gttcctctag tgccctccac 1320
agccgcagcc tccctctgac ctgcaggcca agagcagagg cagcgagttg tggaaagcct 1380
ctgctgccat ggcgtgtccc tctcggaagg ctggctgggc atggacgttc ggggcatgct 1440
ggggcaagtc cctgagtctc tgtgacctgc cccgccagc tgcacctgcc agcctggctt 1500
ctggagccct tgggtttttt gtttgtttgt ttgtttgttt gtttgtttct cccctgggc 1560
tctgcccagc tctggcttcc agaaaacccc agcatccttt tctgcagagg ggctttctgg 1620
agaggaggga tgctgcctga gtcacccatg aagacaggac agtgcttcag cctgaggctg 1680
agactgcggg atggctctgg ggctctgtgc agggaggagg tggcagccct gtagggaacg 1740
gggtccttca agttagctca ggaggcttgg aaagcatcac ctcaggccag gtgcagtggc 1800
tcacgcctat gatcccagca ctttgggagg ctgaggcggg tggatcacct gaggttagga 1860
gttcgagacc agcctggcca acatggtaaa accccatctc tactaaaaat acagaaatta 1920
gccgggctg gtggcgggca cctatagtcc cagctactca gaagcctgag gctgggaaat 1980
cgtttgaacc cgggaagcgg aggttgacgg gagccgagat cacgccactg cactccagcc 2040
tgggcgacag agcgagagtc tgtctcaaaa gaaaaaaaaa aagcaccgcc tccaaatgct 2100
aacttgtcct tttgtaccat ggtgtgaaag tcagatgccc agagggccca ggcaggccac 2160
catattcagt gctgtggcct gggcaagata acgcacttct aactagaaat ctgccaat 2220
tttaaaaaag taagtaccac tcaggccaac aagccaacga caaagccaaa ctctgccagc 2280
cacatccaac cccccacctg ccatttgcac cctccgctt cactccggtg tgctgcag 2339

<210> 4
<211> 392
<212> PRT
<213> Homo sapiens

<400> 4

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
1 5 10 15

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
20 25 30

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
 35 40 45

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
 50 55 60

Arg Leu Cys Ala Pro Leu Pro Lys Cys Arg Pro Gly Phe Gly Val Ala
 65 70 75 80

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
 85 90 95

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
 100 105 110

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Arg Asp Ala
 115 120 125

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
 130 135 140

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Ser
 145 150 155 160

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
 165 170 175

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Phe Ala Leu Pro Val
 180 185 190

Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile Gly Val
 195 200 205

Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu Cys Leu
 210 215 220

Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly
 225 230 235 240

Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser
 245 250 255

Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala
 260 265 270

Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala
 275 280 285

Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Ala Asp Ser Ser Pro Gly
 290 295 300

Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser
 305 310 315 320

Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met
 325 330 335

Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val
 340 345 350

Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro
 355 360 365

Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val
 370 375 380

Pro Asp Ala Gly Met Lys Pro Ser
 385 390

<210> 5
 <211> 28
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic peptide

<220>
 <221> misc_feature
 <222> (25)..(25)
 <223> Xaa = unknown amino acid

<400> 5

Leu Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro
 1 5 10 15

Gln Gly Lys Tyr Ile His Pro Gln Xaa Asn Ser Ile
 20 25

<210> 6
 <211> 15
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Synthetic peptide

<400> 6

Ser Thr Pro Glu Lys Glu Gly Glu Leu Glu Gly Thr Thr Thr Lys
 1 5 10 15

<210> 7
<211> 18
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 7

Ser Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys
1 5 10 15

Pro Leu

<210> 8
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 8

Val Phe Cys Thr
1

<210> 9
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 9

Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala Gly Glu Ala
1 5 10 15

<210> 10
<211> 18
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<220>
<221> misc_feature
<222> (8)..(8)
<223> Xaa = unknown amino acid

<400> 10

Leu Pro Ala Gln Val Ala Phe Xaa Pro Tyr Ala Pro Glu Pro Gly Ser
1 5 10 15

Thr Cys

<210> 11
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa = unknown amino acid

<400> 11

Ile Xaa Pro Gly Phe Gly Val Ala Tyr Pro Ala Leu Glu
1 5 10

<210> 12
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 12

Leu Cys Ala Pro
1

<210> 13
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 13

Val Pro His Leu Pro Ala Asp
1 5

<210> 14
<211> 15
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<220>
<221> misc_feature
<222> (9)..(10)
<223> Xaa = unknown amino acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa = unknown amino acid

<400> 14

Gly Ser Gln Gly Pro Glu Gln Gln Xaa Xaa Leu Ile Xaa Ala Pro
1 5 10 15

<210> 15
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 15

Leu Val Pro His Leu Gly Asp Arg Glu
1 5

<210> 16
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic primer

<400> 16
agggagaaga gagatagtgt gtgtccc

27

<210> 17
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 17
aagcttggcc aggatccagc tgactgactg atcgcgagat c

41

<210> 18
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Antisense primer

<400> 18
 gatctcgca tcagtcagtc agctggatcc tggccaagct t 41

<210> 19
 <211> 38
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 19
 cacagggatc catagctgtc tggcatgggc ctctccac 38

<210> 20
 <211> 44
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Antisense primer

<400> 20
 cccggtacca gatctctatt atgtggtgcc tgagtcctca gtgc 44

<210> 21
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 21
 gatccagaat tcataatag 19

<210> 22
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Antisense primer

<400> 22
 gtacctatta tgaattctg 19

<210> 23
 <211> 31
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 23
 gcaccacata atagagatct ggtaccggga a 31

<210> 24
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> Antisense primer

<400> 24
cccggtagca gatctctatt atgtg

25

<210> 25
<211> 29
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 25
tacgagctcg gccatagctg tctggcatg

29

<210> 26
<211> 29
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 26
atagagctct gtggtagcctg agtcctcag

29